[FIG.1]

100 BASE STATION APPARATUS

RECEIVED SIGNAL

TRANSMISSION SIGNAL

104 RECEIVED SIGNAL DEMODULATION SECTION

105 SCHEDULER SECTION

106 TRANSMISSION SIGNAL GENERATION SECTION

107 DIRECTIVITY SWITCHING INSTRUCTION SECTION

103 DIRECTIVITY CONTROL SECTION

102-1 RECEPTION RF SECTION

102-n RECEPTION RF SECTION

108-1 TRANSMISSION RF SECTION

108-n TRANSMISSION RF SECTION

[FIG.2]

200 TERMINAL APPARATUS

RECEIVED SIGNAL

TRANSMISSION SIGNAL

203 RECEIVED SIGNAL DEMODULATION SECTION

204 SIR MEASURING ,SECTION

205 TRANSMISSION SIGNAL GENERATION SECTION

202 RECEPTION RF SECTION

206 TRANSMISSION RF SECTION

[FIG.3]

FROM DIRECTIVITY CONTROL SECTION 103

301 TIMER

302 DIRECTIVITY SWITCHING INSTRUCTION SIGNAL

GENERATION SECTION

TO DIRECTIVITY CONTROL SECTION 103

[FIG.4]

START

ST401 PREPARE FOR REPETITION AS MANY TIMES AS

DIRECTIVITIES

ST1402 TRANSMIT REFERENCE SIGNAL WITH DIRECTIVITY N

ST1403 RECEIVE SIR MEASUREMENT RESULT

ST1404 TRANSMIT CHANNEL USING ADAPTIVE MODULATION WITH

DIRECTIVITY N

ST1405 ELAPSED PREDETERMINED TIME?

ST1406 REPEATE AS MANY TIMES AS DIRECTIVITIES

END

[FIG.6]

RECEIVED SIGNAL

600 BASE STATION APPARATUS

601 DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION

TRANSMISSION SIGNAL

104 RECEIVED SIGNAL DEMODULATION SECTION

105 SCHEDULER SECTION

106 TRANSMISSION SIGNAL GENERATION SECTION

602 DIRECTIVITY SWITCHING INSTRUCTION SECTION

103 DIRECTIVITY CONTROL SECTION

102-1 RECEPTION RF SECTION

102-n RECEPTION RF SECTION

108-1 TRANSMISSION RF SECTION

108-n TRANSMISSION RF SECTION

[FIG.7]

RECEIVED SIGNAL

700 TERMINAL APPARATUS

701 DIRECTIVITY SWITCHING DECISION SECTION

203 RECEIVED SIGNAL DEMODULATION SECTION

204 SIR MEASURING SECTION

205 TRANSMISSION SIGNAL GENERATION SECTION

TRANSMISSION SIGNAL

202 RECEPTION RF SECTION

206 TRANSMISSION RF SECTION

[FIG.8]

TO DIRECTIVITY CONTROL SECTION 103

801 DIRECTIVITY SWITCHING TIMING DETERMINING SECTION

802 DIRECTIVITY SWITCHING SIGNAL INSERTION TIMING

DETERMINING SECTION

FROM DIRECTIVITY CONTROL SECTION 103

TO DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION 601

[FIG.9]

START

ST901 DEMODULATE RECEIVED SIGNAL

ST902 DIRECTIVITY SWITCHING SIGNAL INCLUDED?

ST903 SIR OUTPUT

ST904 SIR DISABLED

ST905 TRANSMIT TRANSMISSION SIGNAL

END

[FIG.10]

DIRECTIVITY SWITCHING SIGNAL

SLOT #1

DIRECTIVITY SWITCHING SLOT

1 SLOT

1 SLOT

[FIG.11]

RECEIVED SIGNAL

1100 BASE STATION APPARATUS

1102 DIRECTIVITY NUMBER INFORMATION GENERATION SECTION

1101 DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION

104 RECEIVED SIGNAL DEMODULATION SECTION

105 SCHEDULER SECTION

106 TRANSMISSION SIGNAL GENERATION SECTION

1103 DIRECTIVITY SWITCHING INSTRUCTION SECTION

TRANSMISSION SIGNAL

DIRECTIVITY INFORMATION

103 DIRECTIVITY CONTROL SECTION

102-1 RECEPTION RF SECTION

102-n RECEPTION RF SECTION

108-1 TRANSMISSION RF SECTION

108-n TRANSMISSION RF SECTION

[FIG.12]

RECEIVED SIGNAL

1200 TERMINAL APPARATUS

1201 DIRECTIVITY SWITCHING DECISION SECTION

1202 DIRECTIVITY NUMBER INFORMATION DECISION SECTION

203 RECEIVED SIGNAL DEMODULATION SECTION

5 204 SIR MEASURING SECTION

205 TRANSMISSION SIGNAL GENERATION SECTION

TRANSMISSION SIGNAL

202 RECEPTION RF SECTION

206 TRANSMISSION RF SECTION

10

[FIG.13]

TO DIRECTIVITY CONTROL SECTION 103

1301 DIRECTIVITY SWITCHING TIMING DETERMINING SECTION

1303 DIRECTIVITY NUMBER INFORMATION INSERTION TIMING

15 DETERMINING SECTION

1302 DIRECTIVITY SWITCHING SIGNAL INSERTION TIMING

DETERMINING SECTION

TO DIRECTIVITY NUMBER INFORMATION GENERATION SECTION 1102

TO DIRECTIVITY SWITCHING SIGNAL GENERATION SECTION 1101

20 FROM DIRECTIVITY CONTROL SECTION 103

[FIG.14]

FROM DIRECTIVITY SWITCHING DECISION SECTION 1201

1401 DIRECTIVITY NUMBER INFORMATION EXTRACTION SECTION

25 1403 STORAGE SECTION

1402 QUALITY VARIATION CALCULATION SECTION

TO SIR MEASURING SECTION 204

FROM RECEIVED SIGNAL DEMODULATION SECTION 203

[FIG.15]

START

ST1501　DEMODULATE RECEIVED SIGNAL

5　ST1502　DIRECTIVITY SWITCHING SIGNAL INCLUDED?

ST1503　MEASURE SIR FROM REFERENCE SIGNAL

ST1504　MEASURE SIR FROM DIRECTIVITY NUMBER INFORMATION

ST1505　SIR OUTPUT

ST1506　TRANSMIT TRANSMISSION SIGNAL

10　END